

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

01/19/2012

Debra Payton
Assistant District Attorney, Norfolk County

Dear ADA Payton,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Peter Piro.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".
Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Writing of the Standard Operating Procedures (SOPs) and Protocols.

*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

*Maintenance and repairs of analytical instruments.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

*Method Development for creating new techniques for the QC Dept. and FDA.

*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice – Forensics Professionals

Introduction to Forensic Drug Chemistry

Perspectives in Expert Testimony

Chemical Spot Test and Mechanism for Illicit Drugs

Evidence Analysis

Forensic Mass Spectrometry

Ethics in Forensic Science

Forensic Science 101: An Introduction

Transition to Leadership

Fundamentals of Forensic Questioned Documents

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectum One.

Ultraviolet–Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Peter Piro

EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

HONORS

Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry

Valedictorian of the Chemistry Department

EXPERIENCE

Department of Public Health/State Laboratory Institute

Laboratory Supervisor I/Chef III, II, I/ Assistant Analyst December 1991-Present
Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Train staff and coordinate schedules. Analyze controlled substances for State and Federal law enforcement agencies. Develop, oversee, and make improvements to the GC/MS laboratory's quality assurance/quality control (QA/QC) program. Serve as the Technical Supervisor of the Drug Analysis Laboratory. Responsible for planning and implementing Quality Improvement (QI) projects. Make recommendations for protocols and procedures by developing methods so work can be performed in an accurate and efficient manner. Purchase supplies for the laboratory. Qualified as an expert witness in Massachusetts courts and in U.S. District Court.

Massachusetts Health Research Institute

Laboratory Technician September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank using cELISA and bioassays.

TRAINING AND ORGANIZATIONS

- * Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- * Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991, Notary Public since 1993.
- * Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27th 1995 and a member of the Massachusetts Organization of State Engineers and Scientists.
- * Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.* Completed Mass Spectrometry Troubleshooting and Maintenance, Agilent Technologies, 2002* Completed Restek GC/MS Training, 2011*Completed DEA Forensic Chemist Training, Special Testing and Research Laboratory, 2011.

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts
Executive Office of Health and Human Services

Department of Public Health
State Laboratory Institute

Boston Drug Laboratory
Tel (617) 983-6622
Fax (617) 983-6625

Amherst Drug Laboratory
Tel (413) 545-2601
Fax (413) 545-2608

Boston Hours

8:00 – 11:00
2:00 – 4:00

Amherst Hours

9:00 – 12:00
1:00 – 3:00

DRUG RECEIPT

City or Department: Quincy Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Det. W. Ward

Defendant(s) Name (last, first, initial):
[REDACTED]

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

2 plbs of Alleged crack cocaine	2.91g	[REDACTED]
1 plb of Alleged crack cocaine	2.47g	[REDACTED]

Received by: ELO Date: 4-13-11

No. [REDACTED] DATE ANALYZED: 6-21-11
CITY: QUINCY POLICE DEPT.
OFFICER: DETECTIVE WILLIAM WARD

DEF: [REDACTED]
AMOUNT: SUBST: SUB
NO. CONT: 2 CONT: PB

DATE REC'D: 04/13/2011 NO. ANALYZED: 1

GROSS WT: 2.910 NET WT: 0.34
#TESTS: 6^{ASQ}

*2P.P.14

PRELIM: COCAINE FINDINGS: COCAINE

No. [REDACTED] DATE ANALYZED: 6-21-11
CITY: QUINCY POLICE DEPT.
OFFICER: DETECTIVE WILLIAM WARD

DEF: [REDACTED]
AMOUNT: SUBST: SUB
NO. CONT: 1 CONT: PB

DATE REC'D: 04/13/2011 NO. ANALYZED:

GROSS WT: 2.470 NET WT: 0.28
#TESTS: 6^{ASQ}
*2P.P.14

PRELIM: COCAINE FINDINGS: COCAINE

DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY QuincyANALYST ASD ✓No. of samples tested: 1

Evidence Wt: _____

PHYSICAL DESCRIPTION:Gross Wt (2): 0.81745

Off white chunky substance

Gross Wt (1): 0.4010

in 2 pbs

Pkg. Wt: _____

Similar

Net Wt: 0.3497PRELIMINARY TESTSSpot Tests

Cobalt

Thiocyanate (-) +Marquis -Froehde's -Mecke's -Microcrystalline Tests

Gold

Chloride - +TLTA (-) +OTHER TESTSPRELIMINARY TEST RESULTSRESULTS CocaineDATE 6-16-11GC/MS CONFIRMATORY TESTRESULTS CocaineMS
OPERATOR PJEDATE 6-21-11

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Dunay ANALYST ASD ✓

No. of samples tested: 1 Evidence Wt: _____

PHYSICAL DESCRIPTION: Gross Wt (): 0.4334

OFF white shiny substance
W - PB

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: 0.2896

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (-) +

Marquis _____

Froehde's _____

Mecke's _____

Microcrystalline Tests

Gold
Chloride +

TLTA (-) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 6-16-11

GC/MS CONFIRMATORY TEST

RESULTS cocaine

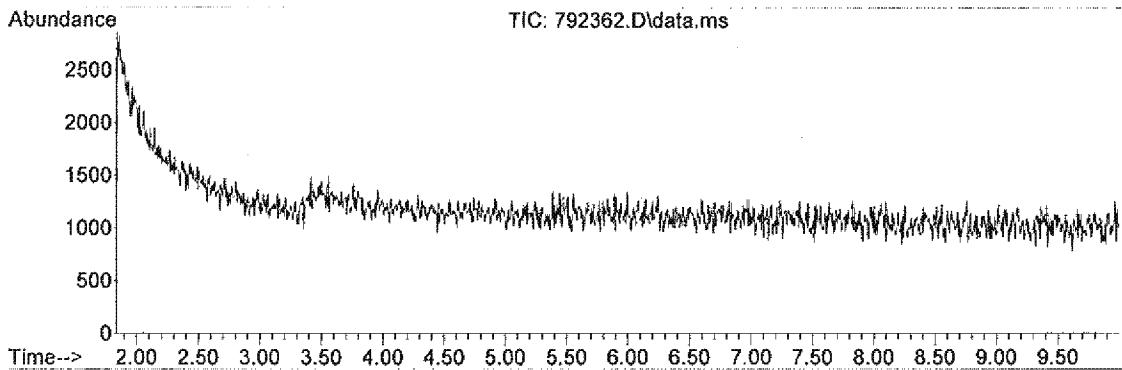
MS
OPERATOR PJP

DATE 6-21-11

VPP.r3
1-18-12

Information from Data File:

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Operator : NEM
Date Acquired : 18 Jun 2011 5:59
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



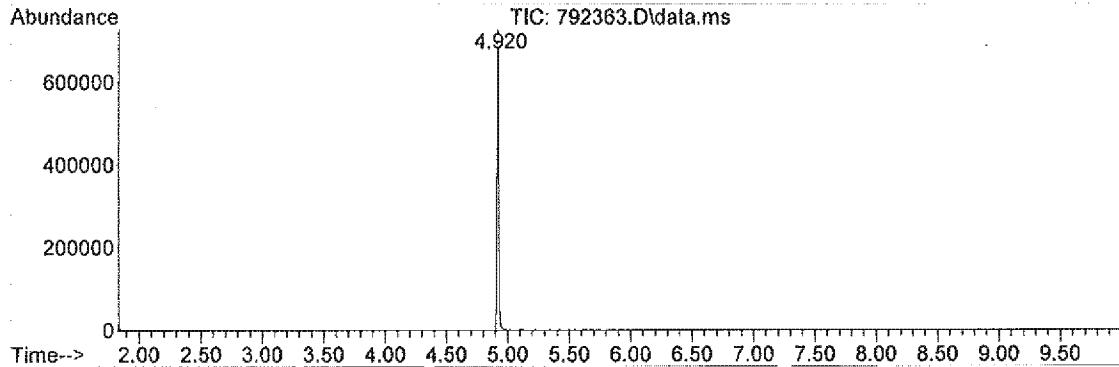
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792363.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:12
Sample Name : COCAINE STD
Submitted by :
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE



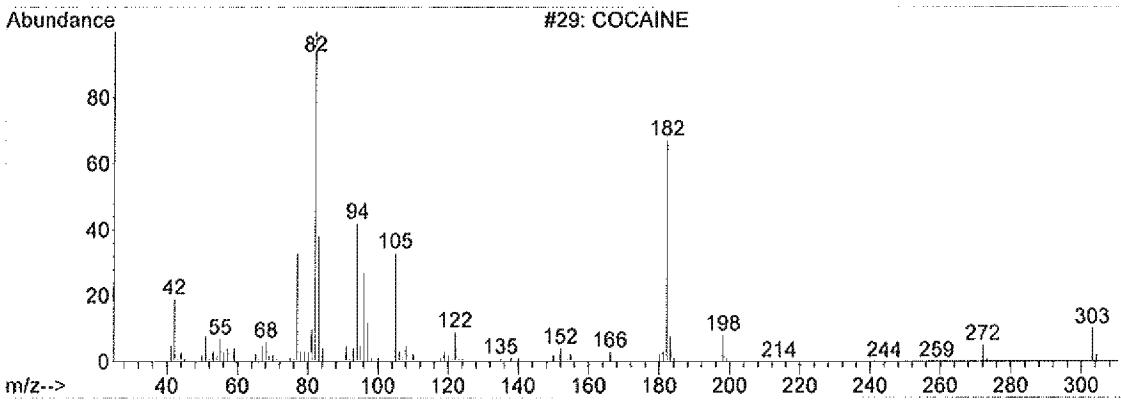
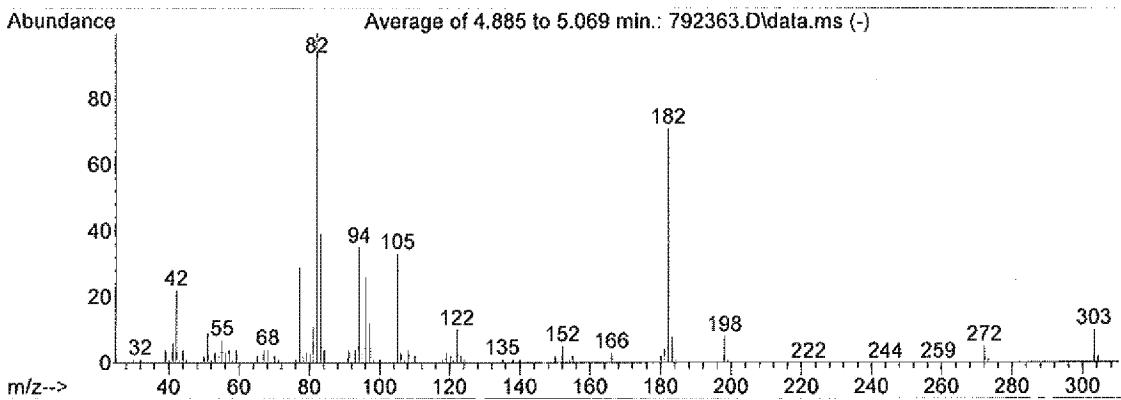
Ret. Time	Area	Area %	Ratio %
4.920	671167	100.00	100.00

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792363.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:12
Sample Name : COCAINE STD
Submitted by :
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE

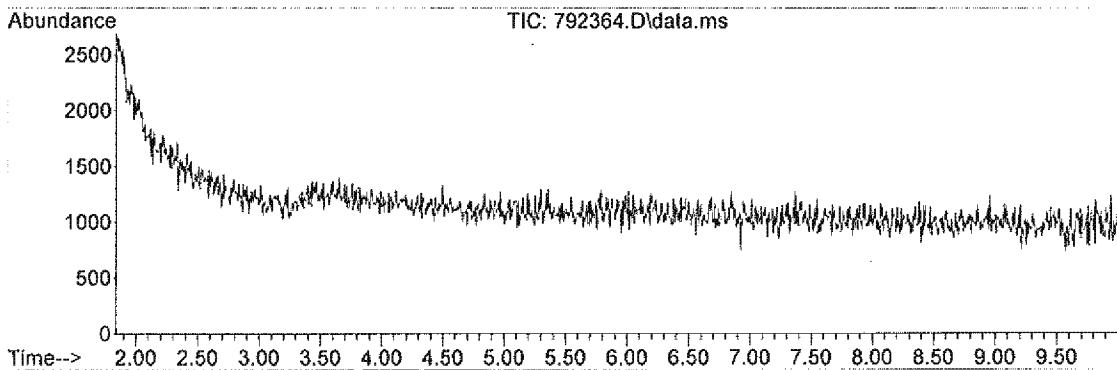
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792364.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:25
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

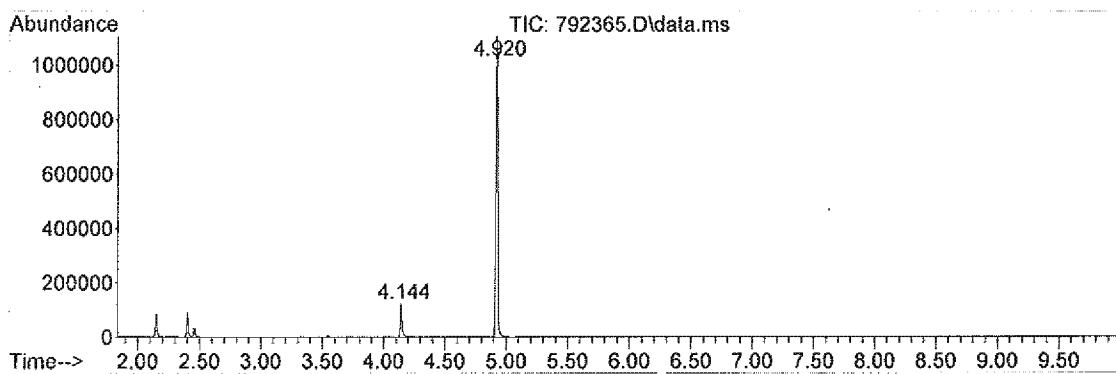


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792365.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:38
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 65
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.144	123633	9.12	10.04
4.920	1231648	90.88	100.00

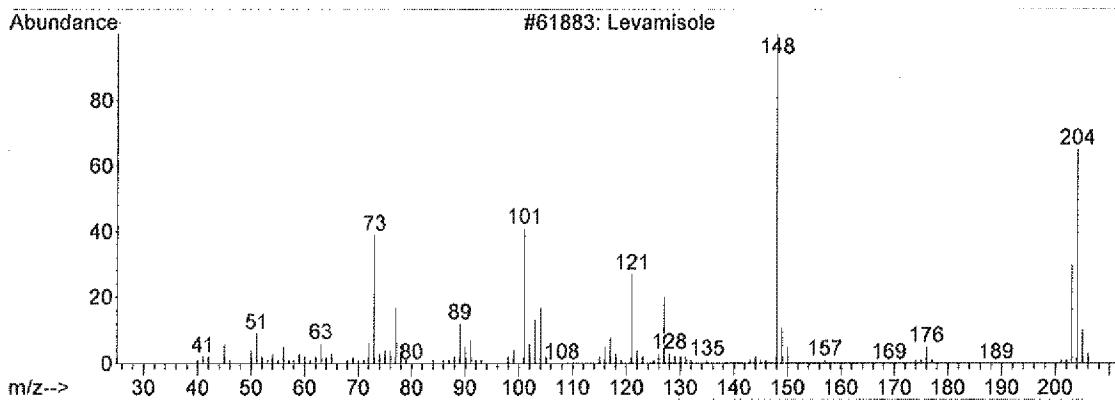
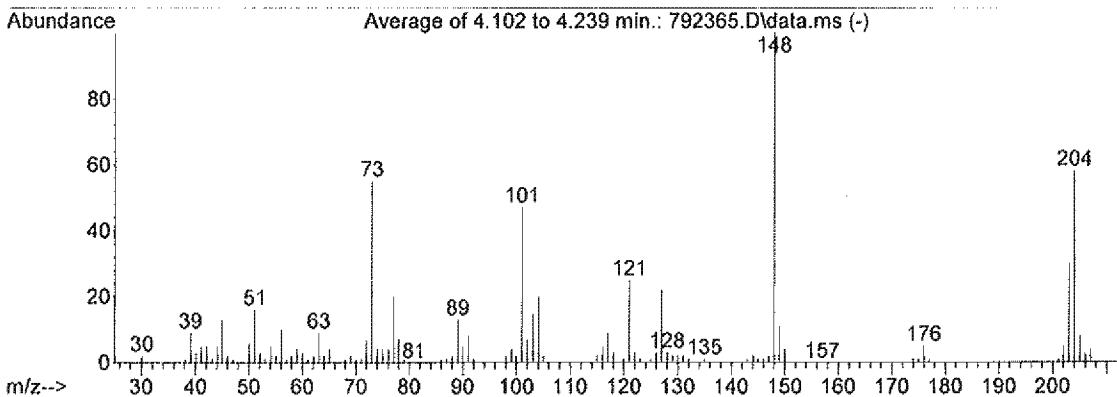
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792365.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:38
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 65
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.14	C:\Database\NIST08.L		
		Levamisole	006649-23-6	98
		Levamisole	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98

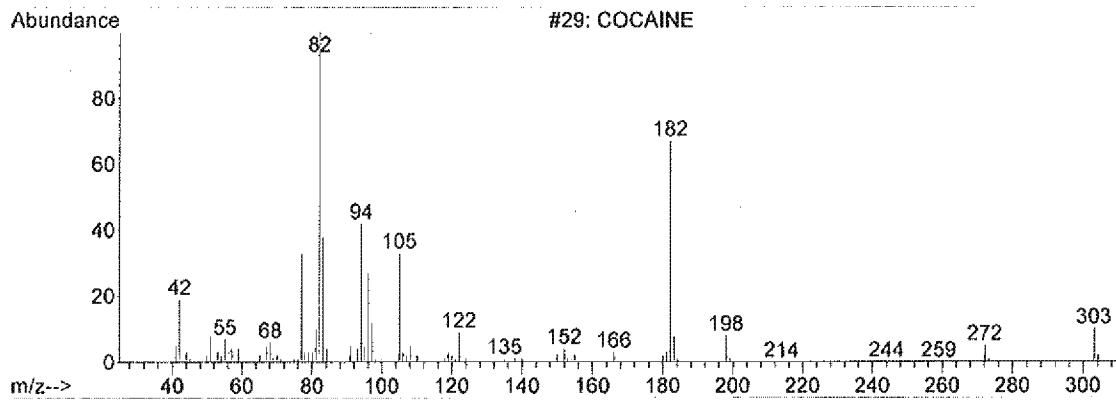
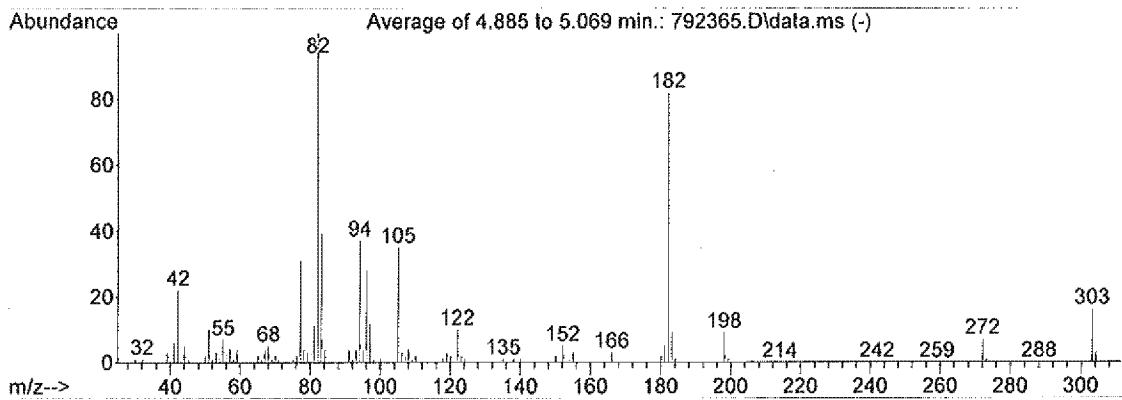


Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792365.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:38
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 65
AcquisitionMeth: DRUGS.M
Integrator : RTE

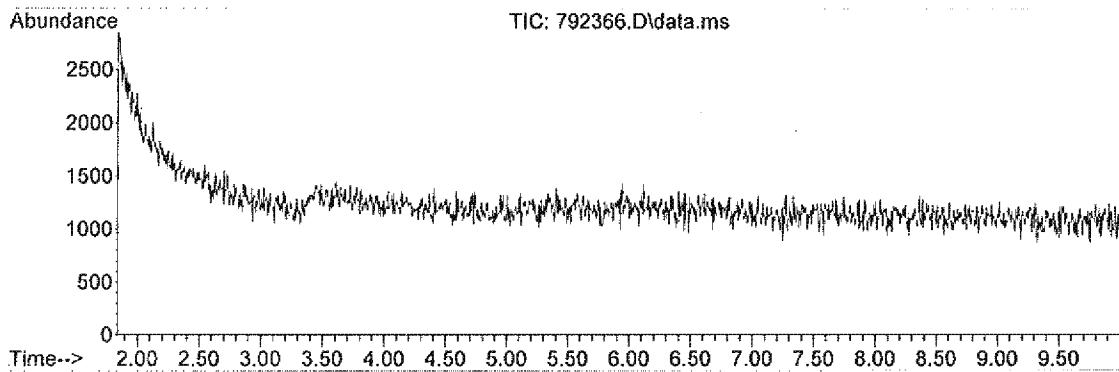
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792366.D
Operator : NEM
Date Acquired : 18 Jun 2011 6:50
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

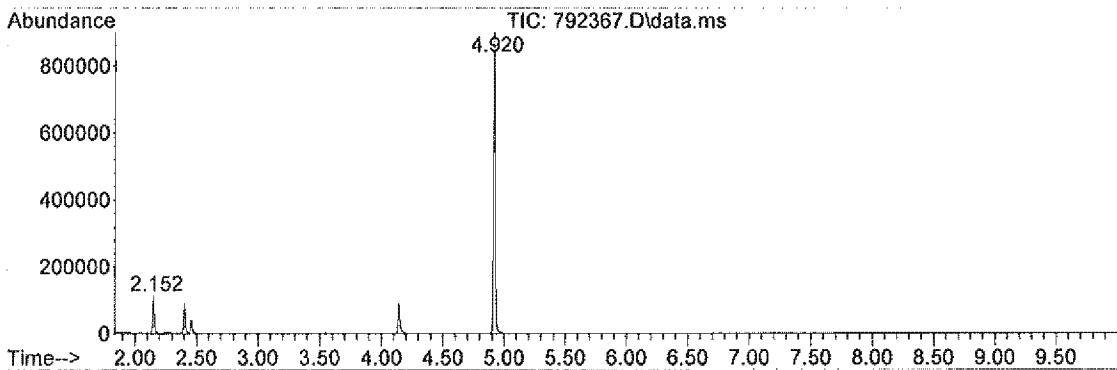


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792367.D
Operator : NEM
Date Acquired : 18 Jun 2011 7:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 67
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.152	101545	10.31	11.49
4.920	883531	89.69	100.00

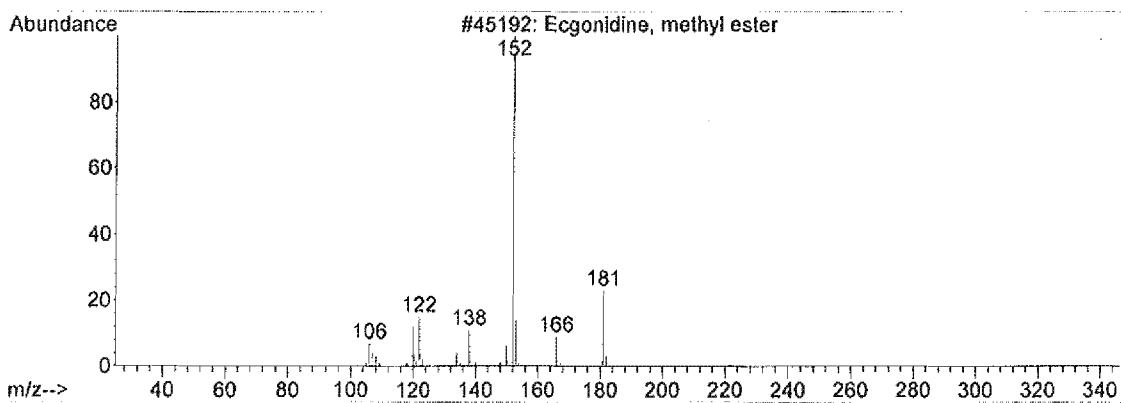
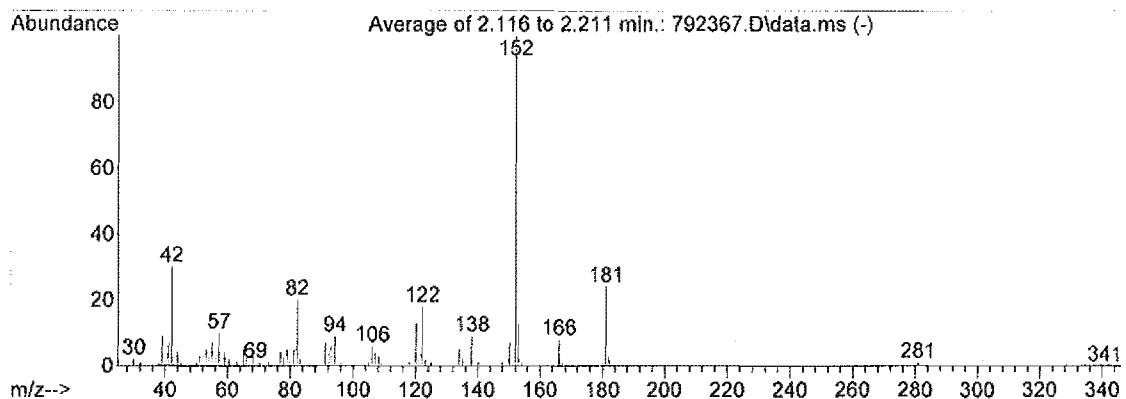
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792367.D
Operator : NEM
Date Acquired : 18 Jun 2011 7:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 67
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.15	C:\Database\NIST08.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	96
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	47



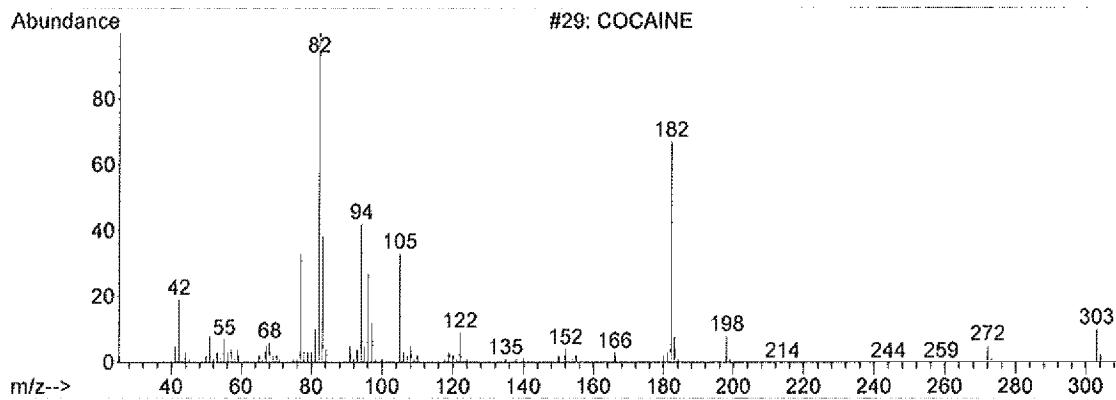
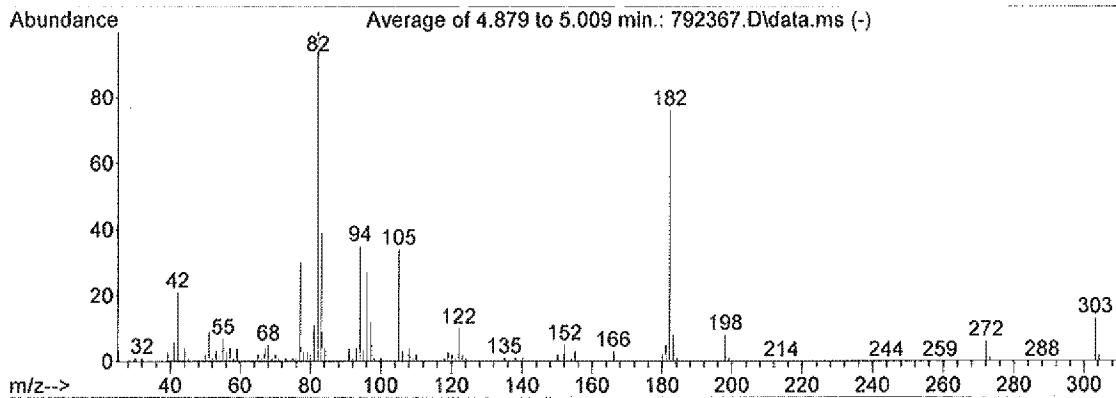
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792367.D
Operator : NEM
Date Acquired : 18 Jun 2011 7:03
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 67
AcquisitionMeth: DRUGS.M
Integrator : RTE

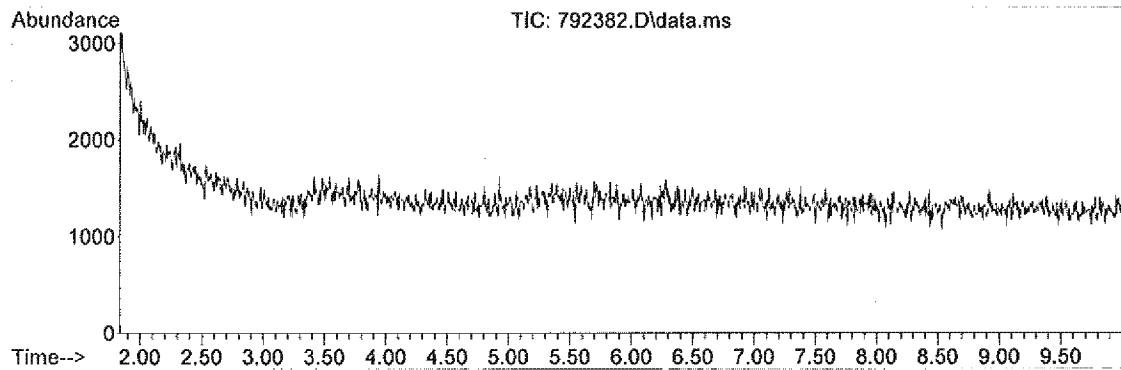
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792382.D
Operator : NEM
Date Acquired : 18 Jun 2011 10:16
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



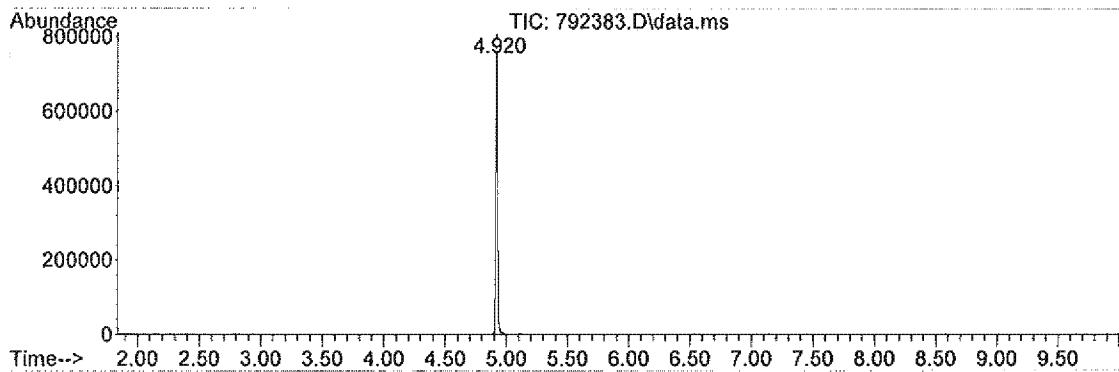
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792383.D
Operator : NEM
Date Acquired : 18 Jun 2011 10:28
Sample Name : COCAINE STD
Submitted by :
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.920	788369	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\data\SYSTEM6\2011\06_17_11\792383.D
Operator : NEM
Date Acquired : 18 Jun 2011 10:28
Sample Name : COCAINE STD
Submitted by :
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST08.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99

